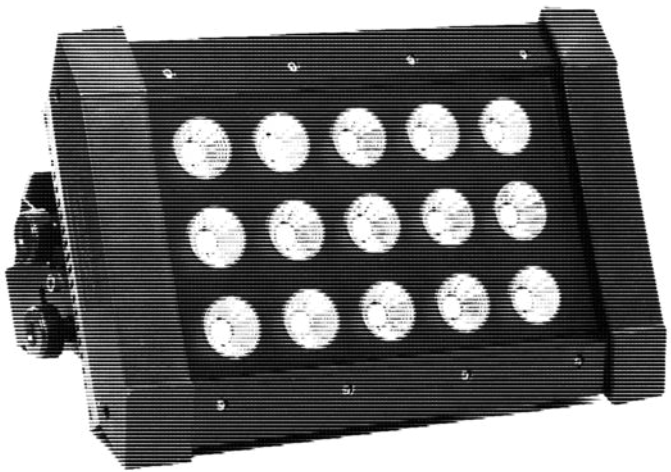
STAIRVILLE



Tri Flood MK II
15×15 W RGB
LED floodlight

th•mann
MUSIC IS OUR PASSION

user manual

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17.03.2014, ID: 274216 (V2)

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1 General notes

This manual contains important instructions for the safe operation of the unit. Read and follow the safety instructions and all other instructions. Keep the manual for future reference. Make sure that it is available to all those using the device. If you sell the unit please make sure that the buyer also receives this manual.

Our products are subject to a process of continuous development. Thus, they are subject to change.

1.1 Further information

On our website (*www.thomann.de)* you will find lots of further information and details on the following points:

Download	This manual is also available as PDF file for you to download.
Keyword search	Use the search function in the electronic version to find the topics of interest for you quickly.
Online guides	Our online guides provide detailed information on technical basics and terms.
Personal consultation	For personal consultation please contact our technical hotline.
Service	If you have any problems with the device the customer service will gladly assist you.

1.2 Notational conventions

This manual uses the following notational conventions:

Letterings

The letterings for connectors and controls are marked by square brackets and italics.

Examples: *[VOLUME]* control, *[Mono]* button.

Displays

Texts and values displayed on the device are marked by quotation marks and italics.

Examples: *'24ch'*, *'OFF'*.

1.3 Symbols and signal words

In this section you will find an overview of the meaning of symbols and signal words that are used in this manual.

Signal word	Meaning
DANGER!	This combination of symbol and signal word indicates an immediate dangerous situation that will result in death or serious injury if it is not avoided.
WARNING!	This combination of symbol and signal word indicates a possible dangerous situation that can result in death or serious injury if it is not avoided.
NOTICE!	This combination of symbol and signal word indicates a possible dangerous situation that can result in material and environmental damage if it is not avoided.

Warning signs	Type of danger
	Warning – high-voltage.
	Warning – suspended load.

Warning signs	Type of danger
	Warning – danger zone.

2 Safety notes

Intended use

This device is intended to be used as an electronic illumination effect using LED technics. Use the device only as described in this user manual. Any other use or use under other operating conditions is considered to be improper and may result in personal injury or property damage. No liability will be assumed for damages resulting from improper use.

This device may be used only by persons with sufficient physical, sensorial, and intellectual abilities and having corresponding knowledge and experience. Other persons may use this device only if they are supervised or instructed by a person who is responsible for their safety.

Safety

DANGER!

Danger for children

Ensure that plastic bags, packaging, etc. are disposed of properly and are not within reach of babies and young children. Choking hazard!

Ensure that children do not detach any small parts (e.g. knobs or the like) from the unit. They could swallow the pieces and choke!

Never let children unattended use electrical devices.

DANGER!

Electric shock caused by high voltages inside

Within the device there are areas where high voltages may be present. Never remove any covers.

There are no user-serviceable parts inside.

DANGER!

Electric shock caused by short-circuit

Do not modify the mains cable or the plug. Failure to do so could result in electric shock/death or fire. If in doubt, seek advice from a registered electrician.

WARNING!

Eye damage caused by high light intensity

Never look directly into the light source.

WARNING!

Risk of epileptic shock

Strobe lighting can trigger seizures in photosensitive epilepsy. Sensitive persons should avoid looking at strobe lights.

NOTICE!

Risk of fire

Do not cover the device nor any ventilation slots. Do not place the device near any direct heat source. Keep the device away from naked flames.

NOTICE!

Operating conditions

This device has been designed for indoor use only. To prevent damage, never expose the device to any liquid or moisture. Avoid direct sunlight, heavy dirt, and strong vibrations.

NOTICE!

Power supply

Before connecting the device, ensure that the input voltage (AC outlet) matches the voltage rating of the device and that the AC outlet is protected by a residual current circuit breaker. Failure to do so could result in damage to the device and possibly injure the user.

Unplug the device before electrical storms occur and when it is unused for long periods of time to reduce the risk of electric shock or fire.

3 Features

The LED floodlight is specially suited for professional lighting tasks, such as at events, on rock stages, in theatres and musicals, in discos or for architectural and garden illumination.

Special features of this device:

- 15 tricoloured LEDs (15 W each)
- Control via DMX (5 different modes) and via buttons and display on the unit
- Preprogrammed automatic shows
- Master / slave operation
- Robust black metal housing
- Outdoor usability, IP65

4 Installation

Unpack and carefully check that there is no transportation damage before using the unit. Keep the equipment packaging. To fully protect the device against vibration, dust and moisture during transportation or storage use the original packaging or your own packaging material suitable for transport or storage, respectively.

You can install the device on the wall, ceiling or floor. A mounting bracket is included in the package.

WARNING!

Risk of injury caused by falling objects

Make sure that the installation complies with the standards and rules that apply in your country. Always secure the device with a secondary safety attachment, such as a safety cable or a safety chain.

NOTICE!

Risk of overheating

Always ensure sufficient ventilation.

The ambient temperature must always be below 40 °C (104 °F).

NOTICE!

Use of stands

When mounting the device onto a stand, ensure that the stand is in a safe and stable position and that the weight of the device does not exceed the maximum permissible load capacity of the stand.

NOTICE!

Possible data transmission errors

For error-free operation make use of dedicated DMX cables and do not use ordinary microphone cables.

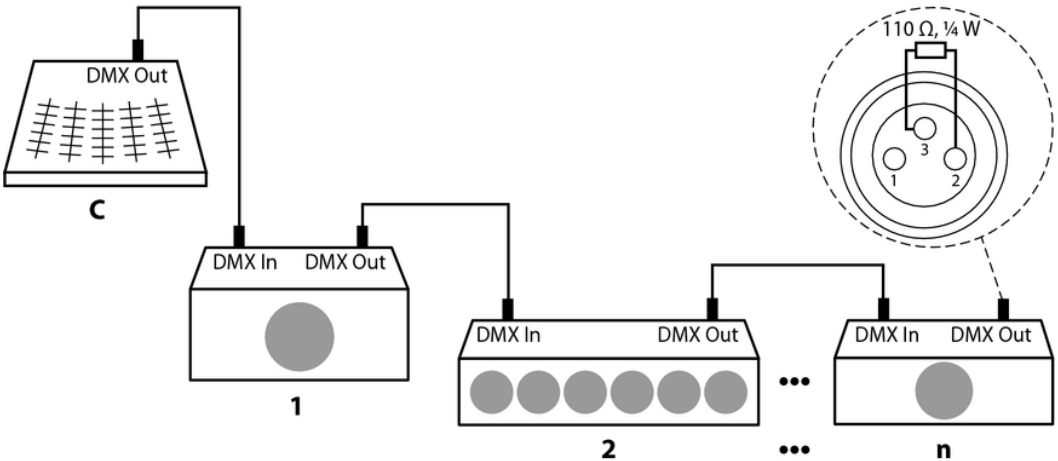
Never connect the DMX input or output to audio devices such as mixers or amplifiers.

5 Starting up

Establish all connections as long as the unit is switched off. Use the shortest possible high-quality cables for all connections.

Connections in DMX mode

Connect the DMX input of the device to the DMX output of a DMX controller or another DMX device. Connect the output of the first DMX device to the input of the second one, and so on to form a daisy chain. Always ensure that the output of the last DMX device in the daisy chain is terminated with a resistor (110 Ω, ¼ W).

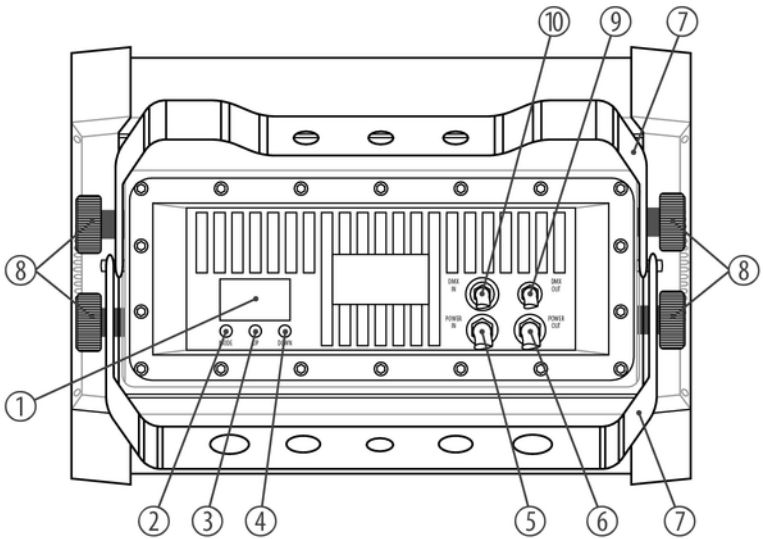


Connections in master/slave mode

When you configure a group of devices in master/slave mode, the first unit will control the other units for an automatic, sound-activated, synchronized show. This function is ideal when you want to start a show immediately. Connect the DMX output of the master device to the DMX input of the first slave device. Then connect the DMX output of the first slave device to the DMX input of the second slave device and so on.

6 Connections and controls

Rear panel



1	Display.
2	*[MODE]* button Activates the main menu or a sub menu respectively.
3	*[UP]* button Increments the displayed value by one.
4	*[DOWN]* button Decrements the displayed value by one.
5	*[POWER IN]* Cable with special threaded coupling connector for mains power connection.
6	*[POWER OUT]* Cable with special threaded coupling connector to feed further units with mains power.
7	Hanging bracket/floor stand
8	Bracket adjustment knob

9	*[DMX OUT]* Cable with DMX outdoor threaded coupling connector as DMX output for further units.
10	*[DMX IN]* Cable with DMX outdoor threaded coupling connector as DMX input.

7 Operation

7.1 Starting up the device

To start up the device, connect it to the mains. After a few seconds the display shows a running reset. Then the device is operational.

7.2 Main menu

Press *[MODE]* to activate the main menu and to select one of the operation modes. Use the *[UP]* and *[DOWN]* buttons to change the displayed value. When the display shows the desired value, press *[MODE]*.

If you don't press any button for about one minute, the unit returns to the previously selected mode. The set values are retained even when the device is disconnected from the mains power supply.

DMX address

Press the *[MODE]* button repeatedly until *'DMX ADD'* appears in the first line of the display. You can now set the number of the first DMX channel used by the device (DMX address). Use the *[UP]* and *[DOWN]* buttons to select a value between 1 and 512 (*'A001'* … *'A512'*, lower line of the display).

Once the display shows the desired option, press the *[MODE]* button to confirm your setting and to close the menu. To close the menu without saving the changes, wait one minute.

Make sure that the DMX address matches the configuration of your DMX controller. The following table shows the highest usable DMX address for the different DMX modes.

DMX mode	Channels	Highest usable DMX address
1	1	512
2	2	511
3	3	510
4	5	508
5	7	506

Display settings

Press the *[MODE]* button repeatedly until *'SETUP'* appears in the first line of the display. You can now select one of the following operation modes using the *[UP]* and *[DOWN]* buttons:

- *'DISP ON'*: The back light of the display stays permanently on.
- *'DISP OFF'*: The back light of the display turns off when no button is pressed for ten seconds.

Once the display shows the desired option, press the *[MODE]* button to confirm your setting and to close the menu. To close the menu without saving the changes, wait one minute.

Master mode

Press the *[MODE]* button repeatedly until *'SETUP'* appears in the first line of the display. You can now select one of the following master mode options using the *[UP]* and *[DOWN]* buttons:

- *'MAST ON'*: Master mode is on, the unit operates as Master.
- *'MAST OFF'*: Master mode off.

This setting takes effect only when the device is not operated under DMX control. The device can control connected devices of the same type, that have to be configured as slaves.

Once the display shows the desired option, press the *[MODE]* button to confirm your setting and to close the menu. To close the menu without saving the changes, wait one minute.

Manual dimmer

Press the *[MODE]* button repeatedly until *'SETUPDIM'* appears in the first line of the display. You can now set the brightness using the *[UP]* and *[DOWN]* within a range of 0 % to 100 %. This setting overrides the brightness setting that can be controlled by DMX.

Once the display shows the desired option, press the *[MODE]* button to confirm your setting and to close the menu. To close the menu without saving the changes, wait one minute.

Manual colour setting

Press the *[MODE]* button repeatedly until *'COLORSET'* appears in the first line of the display and *'xxx% RED'* (red), *'xxx% GRE'* (green) or *'xxx% BLU'* (blue) in the last line of the display. You can now set the brightness of the respective basic colour using the *[UP]* and *[DOWN]* within a range of 0 % to 100 %. This setting overrides the brightness setting that can be controlled by DMX.

Resetting to factory defaults

Press the *[MODE]* button repeatedly until *'RESET'* appears in the first line of the display. Pressing now *[UP]* or *[DOWN]* for at least three seconds, the unit carries out a reset.

DMX or slave mode

Press the *[MODE]* button repeatedly until *'DMX'* appears in the first line of the display. You can now select one of the following operation modes using the *[UP]* and *[DOWN]* buttons:

- *'MODE1'* (DMX mode 1, one channel)
- *'MODE2'* (DMX mode 2, two channels)
- *'MODE3'* (DMX mode 3, three channels)
- *'MODE4'* (DMX mode 4, five channels)
- *'MODE5'* (DMX mode 5, seven channels)
- *'MODE6'* (DMX mode 6, seven channels, same as DMX mode 5)
- *'SLAVE'* (slave mode). This setting takes effect only when the device is controlled by a master, but not operated under DMX control.

Once the display shows the desired option, press the *[MODE]* button to confirm your setting and to close the menu. To close the menu without saving the changes, wait one minute.

SET DEU

No function.

Temperature indicator

Press the *[MODE]* button repeatedly until *'BOARD PCB'* appears in the first line of the display. The temperature is shown in the lower line of the display (°C).

Press the *[MODE]* button to close the menu, or wait one minute.

Update

No function.

Device version

Press the *[MODE]* button repeatedly until *'VERSION'* appears in the first line of the display. The software version installed is shown in the lower line of the display.

Press the *[MODE]* button to close the menu or wait one minute.

Auto show mode

Press the *[MODE]* button repeatedly until *'PROGRAM'* appears in the first line of the display. You may now choose one of the 20 programmed automatic shows listed in the following table using the *[UP]* and *[DOWN]* buttons.

This setting takes effect only when the device is not operated under DMX control. The device can operate in stand-alone mode or control connected devices of the same type, that have to be configured as slaves. Once the display shows the desired option, press the *[MODE]* button to confirm your setting and to close the menu. To close the menu without saving the changes, wait one minute.

Program speed

Press the *[MODE]* button repeatedly until *'SPEED'* appears in the first line of the display. Now set the speed for the programmed automatic show. Use the *[UP]* and *[DOWN]* buttons to select a value between *'000'* (program stop), *'001'*, and *'031'* (from low to fast).

This setting takes effect only when the device is not operated under DMX control. Once the display shows the desired option, press the *[MODE]* button to confirm your setting and to close the menu. To close the menu without saving the changes, wait one minute.

Sound control

Press the *[MODE]* button repeatedly until *'SOUND MODE x'* appears in the first line of the display. Use the *[UP]* and *[DOWN]* buttons to select one of the sound-controlled shows (Sound to Light) (*'SOUND MODE 1'* and *'SOUND MODE 2'*).

Microphone sensitivity

Press the *[MODE]* button repeatedly until the display shows *'SOUND SENS'*. Now adjust the sensitivity of the built-in microphone for the sound control. Use the *[UP]* and *[DOWN]* buttons to select a value between *'SENS 000'* (microphone off), *'SENS 001'*, and *'SENS 031'* (lowest to highest microphone sensitivity).

This setting takes effect only when the device is not operated under DMX control. Once the display shows the desired option, press the *[MODE]* button to confirm your setting and to close the menu. To close the menu without saving the changes, wait one minute.

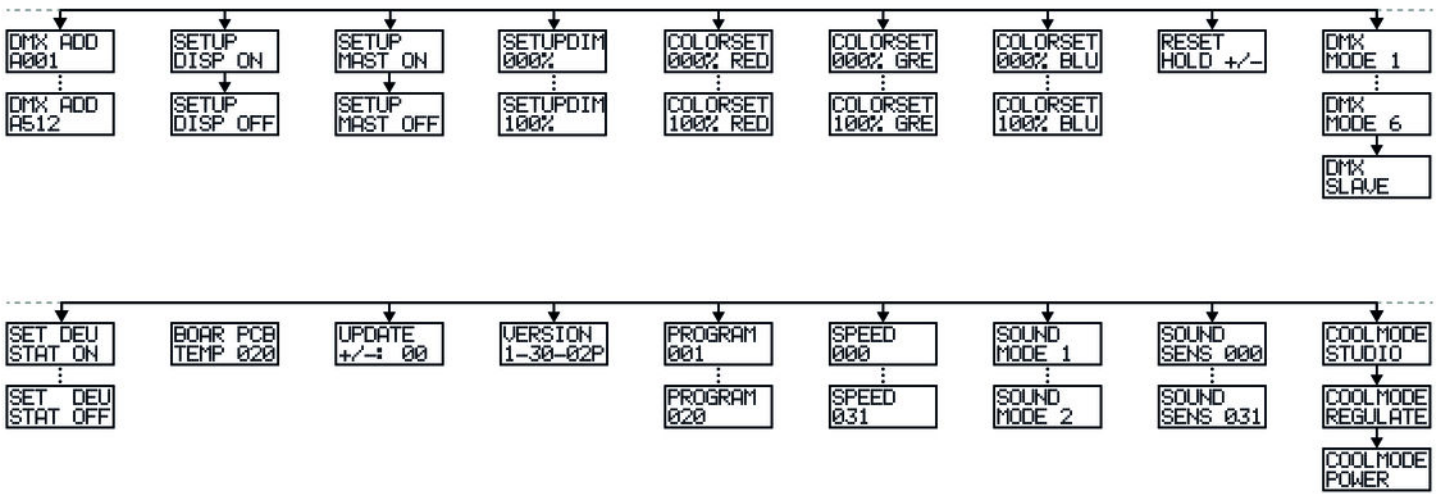
Temperature monitoring

Press the *[MODE]* button repeatedly until *'COOLMODE'* appears in the first line of the display. You can now select one of the following monitoring modes using the *[UP]* and *[DOWN]* buttons:

- *'STUDIO'*: The brightness of the LEDs is always adjusted to 70 %. As soon as the temperature inside the unit exceeds 70 °C, the fan turns on and the brightness is further reduced. This lets the unit cool down automatically.
- *'REGULATE'*: The brightness of the LEDs is always set at 100 %, as long as the temperature inside the unit remains below 60 °C. At a higher temperature, the brightness is reduced. As soon as the temperature exceeds 48 °C, the fan turns on.
- *'POWER'*: The brightness of the LEDs is always set at 100 %, as long as the temperature inside the unit remains below 70 °C. At a higher temperature, the brightness is reduced. The fan runs continuously.

Once the display shows the desired option, press the *[MODE]* button to confirm your setting and to close the menu. To close the menu without saving the changes, wait one minute.

7.3 Menu diagram



7.4 Functions in DMX mode 1

Channel	Value	Function
1	Automatic colour change	
	0…6	Blackout
	7…13	Macro 1
	⋮	
	245…255	Macro 36

7.5 Functions in DMX mode 2

Channel	Value	Function
1	Automatic colour change	
	0…6	Blackout
	7…13	Macro 1
	⋮	
	245…255	Macro 36
2	0…255	Dimmer (0 % to 100 %)

7.6 Functions in DMX mode 3

Channel	Value	Function
1	0…255	Intensity of red (0 % to 100 %)
2	0…255	Intensity of green (0 % to 100 %)
3	0…255	Intensity of blue (0 % to 100 %)

7.7 Functions in DMX mode 4

Channel	Value	Function
1	0…255	Intensity of red (0 % to 100 %)
2	0…255	Intensity of green (0 % to 100 %)
3	0…255	Intensity of blue (0 % to 100 %)

Channel	Value	Function
4	Strobe effect	
	0…7	Full brightness, no strobe effect
	8…255	Strobe effect, increasing speed (1…12 Hz)
5	0…255	Dimmer (0 % to 100 %)

7.8 Functions in DMX mode 5 and DMX mode 6

Channel	Value	Function
1	0…255	Intensity of red (0 % to 100 %)
2	0…255	Intensity of green (0 % to 100 %)
3	0…255	Intensity of blue (0 % to 100 %)
4	Strobe effect	

Channel	Value	Function
	0…15	Full brightness, no strobe effect
	16…255	Strobe effect, increasing speed (1…12 Hz)
5	0…255	Dimmer (0 % to 100 %)
6	Mode selection	
	0…31	Off
	32…63	Slowly increasing brightness
	64…95	Slowly decreasing brightness
	96…127	Slowly alternating increasing brightness, then slowly decreasing
	128…159	Automatic colour change type 1
	160…191	Automatic colour change type 2 (3 colours)
	192…223	Automatic colour change type 3 (10 colours)

Channel	Value	Function
	224…255	Sound control
7	0…255	Speed and sensitivity of the effect set by channel 6, if channel 6 = 32…223, increasing sensitivity

8 Technical specifications

LEDs	15 × 15 W, tricoloured (RGB)
Dispersion angle	approx 40 °
Number of DMX channels	1, 2, 3, 5 or 7
Operating voltage supply	AC 230 V ~ , 50 Hz
Power consumption	270 W
Protection class	IP65
Dimensions (W × D × H)	445 mm × 310 mm × 200 mm
Weight	13.0 kg

9 Plug and connection assignments

Introduction

This chapter will help you select the right cables and plugs to connect your valuable equipment so that a perfect light experience is guaranteed.

Please take our tips, because especially in 'Sound & Light' caution is indicated: Even if a plug fits into a socket, the result of an incorrect connection may be a destroyed DMX controller, a short circuit or 'just' a not working light show!

DMX connections

The unit offers a 3-pin XLR socket for DMX output and a 3-pin XLR plug for DMX input. Please refer to the drawing and table below for the pin assignment of a suitable XLR plug.

Pin	Configuration
1	Ground, shielding
2	Signal inverted (DMX–, 'cold signal')
3	Signal (DMX+, 'hot signal')

10 Troubleshooting

NOTICE!

Possible data transmission errors

For error-free operation make use of dedicated DMX cables and do not use ordinary microphone cables.

Never connect the DMX input or output to audio devices such as mixers or amplifiers.

In the following we list a few common problems that may occur during operation. We give you some suggestions for easy troubleshooting:

Symptom	Remedy
The unit does not work, no light.	Check the mains connection and the fuse.
No response to the DMX controller.	1. Check the DMX ports and cables for proper connection.
	2. Check the address settings and the DMX polarity.
	3. Try using another DMX controller.
	4. Check to see if the DMX cables run near or alongside to high voltage cables that may cause damage or interference to DMX interface circuits.

If the procedures recommended above do not succeed, please contact our Service Center. You can find the contact information at *www.thomann.de*.

11 Cleaning

Optical lenses

Clean the optical lenses, that are accessible from the outside, regularly in order to optimize the light output. The frequency of cleaning depends on the operating environment: wet, smoky or particularly dirty surroundings can cause more accumulation of dirt on the optics of the device.

- Clean with a soft cloth using our lamp and lens cleaner (item no. 280122).
- Always dry the parts carefully.

12 Protecting the environment

Disposal of the packaging material

For the transport and protective packaging, environmentally friendly materials have been chosen that can be supplied to normal recycling.

Ensure that plastic bags, packaging, etc. are properly disposed of.

Do not just dispose of these materials with your normal household waste, but make sure that they are collected for recycling. Please follow the notes and markings on the packaging.

Disposal of your old device

This product is subject to the European Waste Electrical and Electronic Equipment Directive (WEEE). Do not dispose with your normal household waste.

Dispose of this device through an approved waste disposal firm or through your local waste facility. When discarding the device, comply with the rules and regulations that apply in your country. If in doubt, consult your local waste disposal facility.